IAC Ch 25, p.1

#### 641—25.4 (105) Amendments to the Uniform Plumbing Code.

**25.4(1)** Section 412. Delete the section and Table 4-1 and insert the following text and table. Reprinted from the 2009 International Plumbing Code with permission of the International Code Council. All rights reserved.

IPC 403.1 Minimum number of fixtures. Plumbing fixtures shall be provided for the type of occupancy and in the minimum number shown in Table IPC 403.1. Types of occupancies not shown in Table IPC 403.1 shall be considered individually by the code official. The number of occupants shall be determined by the International Building Code. Occupancy classification shall be determined in accordance with the International Building Code.

				WATER CLOSETS (Urinals, See Section 419.2)		LAVATORIES			DRINKING FOUNTAINe, f			
NO.	CLASSIFICATION	OCCUPANCY	DESCRIPTION	MALE			BATHTUBS/ SHOWERS	(See Section 410.1)	OTHER			
		A-1 <sup>d</sup>	Theaters and other buildings for the performing arts and motion pictures	1 per 125	1 per 65	1 per 200		1 per 200		_	1 per 500	1 service sink
		A-2d	Nightclubs, bars, taverns, dance halls and buildings for similar purposes	1 per 40	1 per 40	1 p	er 75		1 per 500	1 service sink		
1 .			Restaurants, banquet halls and food courts	1 per 75	1 per 75	1 per 200		_	1 per 500	1 service sink		
	Assembly	Assembly A-3d	A-3 <sup>d</sup>	Auditoriums without permanent seating, art galleries, exhibition halls, museums, lecture halls, libraries, arcades and gymnasiums	1 per 125	1 per 65	1 per 200		_	1 per 500	1 service sink	
			Passenger terminals and transportation facilities	1 per 500	1 per 500	1 per 750		_	1 per 1,000	1 service sink		
			Places of worship and other religious services	1 per 150	1 per 75	1 pe	er 200	_	1 per 1,000	1 service sink		

# Ch 25, p.3

(See Sections IPC 403.2 and IPC 403.3)												
				WATER CLOSETS (Urinals, See Section 419.2)		LAVATORIES			DRINKING FOUNTAIN <sup>e, f</sup>			
NO.	CLASSIFICATION	CLASSIFICATION OCCUPANCY		MALE	FEMALE	MALE	FEMALE	BATHTUBS/ SHOWERS	(See Section 410.1)	OTHER		
1 (cont'd)	Assembly (cont'd)	A-4	Coliseums, arenas, skating rinks, pools and tennis courts for indoor sporting events and activities	1 per 75 for the first 1,500 and 1 per 120 for the remainder exceeding 1,500	1 per 40 for first 1,520 and 1 per 60 for the remainder exceeding 1,520	1 per 200	1 per 150	_	1 per 1,000	1 service sink		
		A-5	Stadiums, amusement parks, bleachers and grandstands for outdoor sporting events and activities	1 per 75 for the first 1,500 and 1 per 120 for the remainder exceeding 1,500	1 per 40 for the first 1,520 and 1 per 60 for the remainder exceeding 1,520	1 per 200	1 per 150	_	1 per 1,000	1 service sink		
2	Business	В	Buildings for the transaction of business, professional services, other services involving merchandise, office buildings, banks, light industrial and similar uses	1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50		1 per 25 for the first the 50 and 1 per 50 for the remainder exceeding 50 the		1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80		_	1 per 100	1 service sink
3	Educational	Е	Educational facilities	1 per 50		1 per 50		_	1 per 100	1 service sink		

				WATER CLOSETS (Urinals, See Section 419.2)  MALE FEMALE					DRINKING FOUNTAINe, f			
NO.	CLASSIFICATION	OCCUPANCY	DESCRIPTION			MALE	FEMALE	BATHTUBS/ SHOWERS	(See Section 410.1)	OTHER		
4	Factory and industrial	F-1 and F-2	Structures in which occupants are engaged in work fabricating, assembly or processing of products or materials	1 per 100		1 per 100		See Section 411	1 per 400	1 service sink		
		I-1	Residential care	1 per 10		1 per 10		1 per 10 1 pe		1 per 8	1 per 100	1 service sink
	Institutional	I-2 Institutional	Hospitals, ambulatory nursing home patients <sup>b</sup>	1 per room <sup>c</sup>		1 per room <sup>c</sup>		1 per 15	1 per 100	1 service sink per floor		
			Employees, other than residential care <sup>b</sup>	1 per 25		1 per 35		_	1 per 100	_		
5			Visitors, other than residential care	1 per 75		1 per 100		_	1 per 500	_		
			Prisons <sup>b</sup>	1 per cell		1 per cell		1 per 15	1 per 100	1 service sink		
			Reformitories, detention centers, and correctional centers <sup>b</sup>	1 per 15		1 per 15		1 per 15	1 per 100	1 service sink		
			Employeesb	yees <sup>b</sup> 1 per 25		1 per 35		_	1 per 100	_		
		I-4	Adult day care and child care	1 per 15		1 per 15		1 per 15		1	1 per 100	1 service sink

(see Sections IPC 403.2 and IPC 403.5)												
				WATER CLOSETS (Urinals, See Section 419.2)		LAVATORIES		DRINKING FOUNTAINe, f BATHTUBS/ (See Section				
NO.	CLASSIFICATION	OCCUPANCY	DESCRIPTION	MALE FEMALE		MALE FEMALE		SHOWERS	410.1)	OTHER		
6	Mercantile	M	Retail stores, service stations, shops, salesrooms, markets and shopping centers	1 per 500		1 per 750		_	1 per 1,000	1 service sink		
		R-1	Hotels, motels, boarding houses (transient)	1 per sleeping unit		1 per sleeping unit		SieeDill9		sleeping	_	1 service sink
		R-2	Dormitories, fraternities, sororities and boarding houses (not transient)	1 per 10		1 per 10		1 per 8	1 per 100	1 service sink		
7 Residential		R-2	Apartment house	1 per dwelling unit			dwelling init	1 per dwelling unit	_	1 kitchen sink per dwelling unit; 1 automatic clothes washer connection per 20 dwelling units		

				WATER CLOSETS (Urinals, See Section 419.2)  MALE FEMALE  1 per dwelling unit		(Urinals, See Section 419.2) LAVATORIES  MALE FEMALE MALE FEMALE		BATHTUBS/	DRINKING FOUNTAINe, f (See Section			
NO.	CLASSIFICATION	R-3	One- and two-family dwellings					1 per dwelling unit	410.1)	1 kitchen sink per dwelling unit; 1 automatic clothes washer connection per dwelling unit		
7	Residential	R-3	Congregate living facilities with 16 or fewer persons	1 p	er 10	1 per 10		1 per 10		1 per 8	1 per 100	1 service sink
(cont'd) (cont'd)		R-4	Residential care/assisted living facilities	1 p	er 10	1 per 10		1 per 10		1 per 8	1 per 100	1 service sink
8	Storage	S-1 S-2	Structures for the storage of goods, warehouses, storehouses and freight depots. Low and Moderate Hazard.	1 pe	er 100	1 p	er 100	See Section 411	1 per 1,000	1 service sink		

IAC Ch 25, p.7

<sup>a</sup> The fixtures shown are based on one fixture being the minimum required for the number of persons indicated or any fraction of the number of persons indicated. The number of occupants shall be determined by the International Building Code.

- b Toilet facilities for employees shall be separate from facilities for inmates or patients.
- <sup>c</sup> A single-occupant toilet room with one water closet and one lavatory serving not more than two adjacent patient sleeping units shall be permitted where such room is provided with direct access from each patient sleeping unit and with provisions for privacy.
- d The occupant load for seasonal outdoor seating and entertainment areas shall be included when determining the minimum number of facilities required.
- e The minimum number of required drinking fountains shall comply with Table IPC 403.1 and Chapter 11 of the International Building Code.
  - f Drinking fountains are not required for an occupant load of 15 or fewer.

IPC 403.1.1 Fixture calculations. To determine the occupant load of each sex, the total occupant load shall be divided in half. To determine the required number of fixtures, the fixture ratio or ratios for each fixture type shall be applied to the occupant load of each sex in accordance with Table IPC 403.1. Fractional numbers resulting from applying the fixture ratios of Table IPC 403.1 shall be rounded up to the next whole number. For calculations involving multiple occupancies, such fractional numbers for each occupancy shall first be summed and then rounded up to the next whole number.

**Exception:** The total occupant load shall not be required to be divided in half where approved statistical data indicates a distribution of the sexes of other than 50 percent of each sex.

**IPC 403.1.2 Family or assisted-use toilet and bath fixtures.** Fixtures located within family or assisted-use toilet and bathing rooms required by Section 1109.2.1 of the International Building Code are permitted to be included in the number of required fixtures for either the male or female occupants in assembly and mercantile occupancies.

**IPC 403.2 Separate facilities.** Where plumbing fixtures are required, separate facilities shall be provided for each sex.

#### **Exceptions:**

- 1. Separate facilities shall not be required for dwelling units and sleeping units.
- 2. Separate facilities shall not be required in structures or tenant spaces with a total occupant load, including both employees and customers, of 15 or less.
- 3. Separate facilities shall not be required in mercantile occupancies in which the maximum occupant load is 50 or less.
- **IPC 403.3 Required public toilet facilities.** Customers, patrons and visitors shall be provided with public toilet facilities in structures and tenant spaces intended for public utilization. The number of plumbing fixtures located within the required toilet facilities shall be provided in accordance with Section 403 for all users. Employees shall be provided with toilet facilities in all occupancies. Employee toilet facilities shall be either separate or combined employee and public toilet facilities.
- IPC 403.3.1 Access. The route to the public toilet facilities required by Section IPC 403.3 shall not pass through kitchens, storage rooms or closets. Access to the required facilities shall be from within the building or from the exterior of the building. All routes shall comply with the accessibility requirements of the International Building Code. The public shall have access to the required toilet facilities at all times that the building is occupied.
- IPC 403.3.2 Location of toilet facilities in occupancies other than covered malls. In occupancies other than covered mall buildings, the required public and employee toilet facilities shall be located not more than one story above or below the space required to be provided with toilet facilities, and the path of travel to such facilities shall not exceed a distance of 500 feet (152 m).

**Exception:** The location and maximum travel distances to required employee facilities in factory and industrial occupancies are permitted to exceed that required by this section, provided that the location and maximum travel distance are approved.

IPC 403.3.3 Location of toilet facilities in covered malls. In covered mall buildings, the required public and employee toilet facilities shall be located not more than one story above or below the space required to be provided with toilet facilities, and the path of travel to such facilities shall not exceed a distance of 300 feet (91 m). In covered mall buildings, the required facilities shall be based on total

Ch 25, p.8

square footage, and facilities shall be installed in each individual store or in a central toilet area located in accordance with this section. The maximum travel distance to central toilet facilities in covered mall buildings shall be measured from the main entrance of any store or tenant space. In covered mall buildings, where employees' toilet facilities are not provided in the individual store, the maximum travel distance shall be measured from the employees' work area of the store or tenant space.

**IPC 403.3.4 Pay facilities.** Where pay facilities are installed, such facilities shall be in excess of the required minimum facilities. Required facilities shall be free of charge.

**IPC 403.4 Signage.** Required public facilities shall be designated by a legible sign for each sex. Signs shall be readily visible and located near the entrance to each toilet facility.

**IPC 410.1 Approval.** Drinking fountains shall conform to ASME A112.19.1M, ASME A112.19.2M or ASME A112.19.9M and water coolers shall conform to ARI 1010. Drinking fountains and water coolers shall conform to NSF 61, Section 9. Where water is served in restaurants, drinking fountains shall not be required. In other occupancies, where drinking fountains are required, water coolers or bottled water dispensers shall be permitted to be substituted for not more than 50 percent of the required drinking fountains.

**IPC 410.2 Prohibited location.** Drinking fountains, water coolers and bottled water dispensers shall not be installed in public restrooms.

**IPC 411.1 Approval.** Emergency showers and eyewash stations shall conform to ISEA Z358.1.

**IPC 411.2 Waste connection.** Waste connections shall not be required for emergency showers and eyewash stations.

**IPC 419.2 Substitution for water closets.** In each bathroom or toilet room, urinals shall not be substituted for more than 67 percent of the required water closets in assembly and educational occupancies. Urinals shall not be substituted for more than 50 percent of the required water closets in all other occupancies.

**25.4(2)** Section 503.0. Delete the section.

**25.4(3)** Section 710.1. Add the following sentences to the end of the section:

The requirement for the installation of a backwater valve shall apply only when determined necessary by the authority having jurisdiction based on local conditions. When a valve is required by the authority having jurisdiction, it shall be a manually operated gate valve or fullway ball valve. An automatic backwater valve may also be installed but is not required.

**25.4(4)** Section 807.4. Delete the section and insert in lieu thereof the following:

807.4 No domestic dishwashing machine shall be directly connected to a drainage system or food waste disposer without the use of an approved dishwasher air gap fitting on the discharge side of the dishwashing machine, or by looping the discharge line of the dishwasher as high as possible near the flood level of the kitchen sink where the waste disposer is connected. Listed air gap fittings shall be installed with the flood level (FL) marking at or above the flood level of the sink or drainboard, whichever is higher.

**25.4(5)** Section 906.7. Change "two (2) inches (50.8 mm)" to "three (3) inches (76.2 mm)".

**25.4(6)** Section 1002.2. Delete Table 10-1 and insert in lieu thereof the following:

IAC Ch 25, p.9

TABLE 10-1

Horizontal Distance of Trap Arms

Trap	Arm Size	<b>Distance Trap to Vent</b>								
		Min	imum	Maximum						
<b>Inches</b>	Millimeters	Inches	Millimeters	Feet	Meters					
11/4	32	$2\frac{1}{2}$	64	5	1.5					
$1\frac{1}{2}$	40	3	76	6	1.8					
2	50	4	102	8	2.4					
3	80	6	152	12	3.7					
4	100	8	203	12	3.7					
> 4	> 100	$2 \times D$	iameter	12	3.7					

Slope one-fourth (1/4) inch per foot (20.9 mm/m)

**25.4**(7) Chapter 16. Delete Part I and insert in lieu thereof the following:

Wastewater intended for use in underground irrigation systems shall be treated in accordance with 567—Chapter 69, Private Sewage Disposal Systems. The irrigation system shall comply with 567—69.12(455B).

[ARC 8860B, IAB 6/16/10, effective 7/21/10]